Bruhath Bangalore Mahanagara Palike Dasarahalli Zone

Name of Work: Improvements to roads & drains at Chikkasandra 13th, 14th , 15th & Connected road to AGB Layout, in Ward No.12, in Shettyhalli Sub Division.

Est .Cost Rs.50.00 Lakhs

Sl No	Description of Items	Unit	No	L	B	D	Qty	Rate	Amount
1	KSRRB 300-3. Earthwork excavation by manual means in ordinary soil invoiving in average horizontal throw up to 2m & an average lift upto 1.5m , excavated surface leveled & sides neatly dressed , the disposed earth to be levelled neatly after breaking of clods complete as per specification MORTH/ Chapter 3. **P. No. 142/ It No. 19.1/ PWD SR 2016-17**								
	for drain								
	13th cross L/s	Cum	1	152.00	1.00	1.00	152.00		
	R/s		1	136.00	1.00	1.00	136.00		
	cross road		1	49.00	1.00	1.00	49.00		
	15th cross road		1	125.00	0.80	0.90	90.00		
	for road damaged portion								
	16 th cross balance		1	50.00	5.00	0.30	75.00		
	cross road		1	40.00	4.50	0.30	54.00		
	for road patch work		4	9.50	2.85	0.30	32.09		
	for culverts		5	7.00	1.50	1.05	55.13		
							643.22	175.96	**113180.00**
2	KSSRB M600-1 Construction Of **dry lean cement concrete mix CC1:5:10** With OPC cement @160kgs,with 25mm and down size graded granite metal coarse aggregate at 0.86cum and fine aggregates @0.58cum sub-base over a prepared sub-grade with (course and fine aggregate conferming to IS:383) aggregate cement ratio not to exceed 15:1. Aggregate gardation after blending to br as per Table 600-1, cement content not to be less than 160kg/cum, optimum moisture content to be less than 10Mpa at 7days, mixxed in a batching plant, transported to site, laid with a paver with electronic sensor, comacting with 8-10 tonnes vibratory roller,finishing and curing complete asper Specification KSSRB:Page No 176, Item No 22.2 and 22.2.1 **PWD SR 2016-17**								
	for drain								
	16 th cross balance		1	50.00	5.00	0.15	37.50		
	cross road		1	40.00	4.50	0.15	27.00		
	for road patch work		4	9.50	2.85	0.15	16.26		
	for culverts		5	7.00	1.50	0.15	7.88		
							88.64	3986.66	**353357.61**
3	KSRB 4-1.3 : **Providing and laying in position plain cement concrete of mix 1:4:8** with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregates @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.3 **Page No.12/ Item No. 4.3/ PWD SR 2016-17**								

	for drain								
	13th cross L/s	Cum	1	152.00	1.00	0.15	22.80		
	R/s		1	136.00	1.00	0.15	20.40		
	cross road		1	49.00	1.00	0.15	7.35		
	15th cross road		1	125.00	0.90	0.15	16.88		
	for culverts		5	7.00	1.50	0.15	7.88		
			5	7.00	1.00	0.15	5.25		
							80.55	5159.02	**415559.00**
4	**Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement**, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in **approved fixed side form work** (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, **construction and longitudinal joints including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - **M30 (at 360Kg per cum** coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) **PWD SR 2016-17 P 176 It No 22.6.1**									
	for drain								
	16 th cross balance		1	50.00	5.00	0.15	37.50		
	cross road		1	40.00	4.50	0.15	27.00		
	for road patch work		4	9.50	2.85	0.15	16.26		
	for culverts		5	7.00	1.50	0.15	7.88		
							88.64	6217.96	**551128.88**
5	**Vaccum de-watering with vaccum pump** and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power floater, blade and disc etc., with all lad and lift **P. No. 177/ It. No. 22.7/ PWD SR 2016-17.**								
	16 th cross road	sqm	1	50.00	5.00		250.00		
	15th Cross road		1	40.00	4.50		180.00		
							430.00	95.40	**41022.00**
7	KSRB 4.2.2 : **Providing and laying in position reinforced cement concrete of design mix M20** with OPC cement @ 320kgs, with with 20mm and down size graded granite metal, coarse aggregate @ 0.69 cum and fine aggregates @ .460cum, with super plasticisers @ 3 liters confirming to is 9103-1999 reafairmed -2008, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for all works in foundation for footings,pedastals,retaining walls, staircase, retaining walls, return walls, walls (any thickness) including attached plasters, columns, piers, abutments, pillars, posts, struts, buttresses, string or lacing courses, parapets, bed blocks, anchor blocks, plain window cills, fillets etc., including cost of all materials, labour, HOM of machinery, curing, complete as per specifications. Specification No. KBS 4.1, 4.5 **,P.13/I.4.11/ PWD SR 2016-17**								
	for drain bottom								

	13th cross L/s	Cum	1	152.00	1.00	0.15	22.80		
	R/s		1	136.00	1.00	0.15	20.40		
	cross road		1	49.00	1.00	0.15	7.35		
	15th cross road		1	125.00	0.80	0.15	15.00		
	side wall								
	13th cross L/s	Cum	2	152.00	0.15	0.75	34.20		
	R/s		2	136.00	0.15	0.75	30.60		
	cross road		2	49.00	0.15	0.15	2.21		
	15th cross road		2	125.00	0.15	0.60	22.50		
	for culverts		5	7.00	1.50	0.15	7.88		
	for culverts		10	7.00	0.30	0.75	15.75		
	approaches		5	7.00	1.20	0.15	6.30		
							184.98		
	deck		5	7.00	1.20	0.22	9.24		
							9.24		
							194.22	6371.66	**1237504.00**
8	KSRB 4.9.2: **Providing T.M.T steel reinforcement for R.C.C work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications.Specification No. KBS 4.6.3, TMT bars Fe 500. **Page No. 17/ Item No. 4.46.2/ PWD SR 2016-17**								
	for drain	Tonne		184.98	x	50.00	9249.00		
	For culvert			9.24		75.00	693.00		
							9942.00		
						say	**9.94**	74915.00	**744805.00**
9	KSRB 4-6.9: **Providing and removing centering**, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walss at any thickness,including attached pilasters,buttresses, plinth and string courses cost of all materials, labour complete as per specification. Specification No. KSRB 4.6.9. exceeding 1m in depth. **Page No. 15/ Item No. 4.31/ PWD SR 2016-17**								
	13th cross L/s	sqm	4	152.00		0.75	456.00		
	R/s		4	136.00		0.75	408.00		
	cross road		4	49.00		0.75	147.00		
	15th cross road		4	125.00		0.60	300.00		
	Culverts		20	7.00		0.75	21.00		
	cd deck salb		5	7.00		0.60	16.80		
							1348.80	310.58	**418910.00**
6	**Providing & laying reinforeced cement precast slabs** of mix CC 1:11/2:3 using 20mm & down size graded Granite metal using HYSD 10mm dia steel @ 100mm c/c both ways & Complete as per specfications.								
	13th cross L/s	sqm	1	152.00	0.90		136.80		
	R/s		1	136.00	0.90		122.40		
	cross road		1	49.00	0.90		44.10		
	15th cross road		1	125.00	0.75		93.75		
	Approved Rate of Precast slab	1680.00					**397.05**	1680.00	**667044.00**

11	KRIDL Charges @ 8%						408913.74	408913.74
12	Third Party Inspection Charges @ 1%							45434.86
13	Miscellaneous and unforeseen charges						3971.00	2165.35
							Total	5000000.00
(Rupees Fifty Lakhs Only)								

CERTIFICATE

1 The Work spot has been inspected and the work found to be necessary
2 The Estimate is prepared as per the PWD SR 2016-17
3 The Provision made in estimate are adequate and essential
4 This area comes under BBMP limits.

Asst Engineer
Ward No-12

Asst Executive Engineer
Shettyhalli Sub-Division
BBMP

Executive Engineer
Dasarahalli Zone
BBMP

ನಂ. JC/DZ/AO/PW/ದಿನಾಂಕ: 18-17-18 6/5/17
ರೂ. Fifty Lakhs only
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ಆಡಳಿತಾತ್ಮಕ ಮಂಜೂರಾತಿ ನೀಡಿದೆ

ಜಂಟಿ ಆಯುಕ್ತರು
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.

ನಂ.CE/TS/ST/17-18 ದಿನಾಂಕ: 01/06/2017
ರೂ. Rs. 50.00 Lakhs only (
Rs. Fifty Lakhs only)
ಗಳ ಅಂದಾಜು ಪಟ್ಟಿಗೆ ತಾಂತ್ರಿಕ ಮಂಜೂರಾತಿ ನೀಡಲಾಗಿದೆ

ಮುಖ್ಯ ಅಭಿಯಂತರರು
ತಾಂತ್ರಿಕ ಸಹಾಯಕರು ಬಿ.ಬಿ.ಎಂ.ಪಿ.
ದಾಸರಹಳ್ಳಿ ವಲಯ, ಬೆಂಗಳೂರು.